

FIG.1 FI.3

- 10 LED DRIVING DEVICE
- 11 R APPLIED VOLTAGE STORAGE REGISTER
- 12 G APPLIED VOLTAGE STORAGE REGISTER
- 5 13 B APPLIED VOLTAGE STORAGE REGISTER
- 15 REGISTER SELECTING CIRCUIT
- 17 DA CONVERTING CIRCUIT
- 18 VOLTAGE VARYING CIRCUIT
- 19 POWER SUPPLY VOLTAGE GENERATING CIRCUIT
- 10 21 R DUTY RATIO STORAGE REGISTER
- 22 G DUTY RATIO STORAGE REGISTER
- 23 B DUTY RATIO STORAGE REGISTER
- 24 25 26 PWM WAVEFORM FORMING CIRCUIT

15 FIG.2

MINIMUM VALUE	STANDARD VALUE	MAXIMUM VALUE
RED LED	GREEN LED	BLUE LED
UNIT		

20 FIG.3

- 30 DRIVING VOLTAGE SETTING DEVICE
- 31 LUMINANCE/CHROMATICITY METER
- 32 MICROCOMPUTER
- 33 APPLIED VOLTAGE SETTING SECTION
- 25 34 DUTY RATIO SETTING SECTION
- 40 LCD PANEL

FIG.4

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ST10  START
ST11  SET ON DUTY RATIOS  R: MAXIMUM
ST12  SET THE TARGET LUMINANCE
5  ST13  APPLY VOLTAGE Vmin
ST14  MEASURED LUMINANCE>TARGET LUMINANCE ?
ST16  STORE THE APPLIED VOLTAGE VALUE
ST17  MEASURED LUMINANCE=TARGET LUMINANCE ?
ST19  STORE THE ON DUTY RATIOS
10  ST20  END

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FIG.5

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ST30  START
ST31  LIGHT AN LED OF EACH COLOR WITH STORED APPLIED
15  VOLTAGE AND DUTY RATIO. DRIVE THE LIQUID CRYSTAL
ST32  MEASURE THE CHROMATICITY
ST33  Y COORDINATE IS IN AN ALLOWABLE RANGE ?
ST34  X COORDINATE IS IN AN ALLOWABLE RANGE ?
ST35  VARY THE DUTY RATIO
20  ST36  WRITE THE DUTY RATIO
ST37  END

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FIG.6

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ELEMENT CHROMATICITY RANGE
25  Green LED DISTRIBUTION RANGE
Blue LED DISTRIBUTION RANGE
Red LED DISTRIBUTION RANGE

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RGB PWM VALUE FINE ADJUSTMENT DIRECTION
WHITE ALLOWABLE RANGE

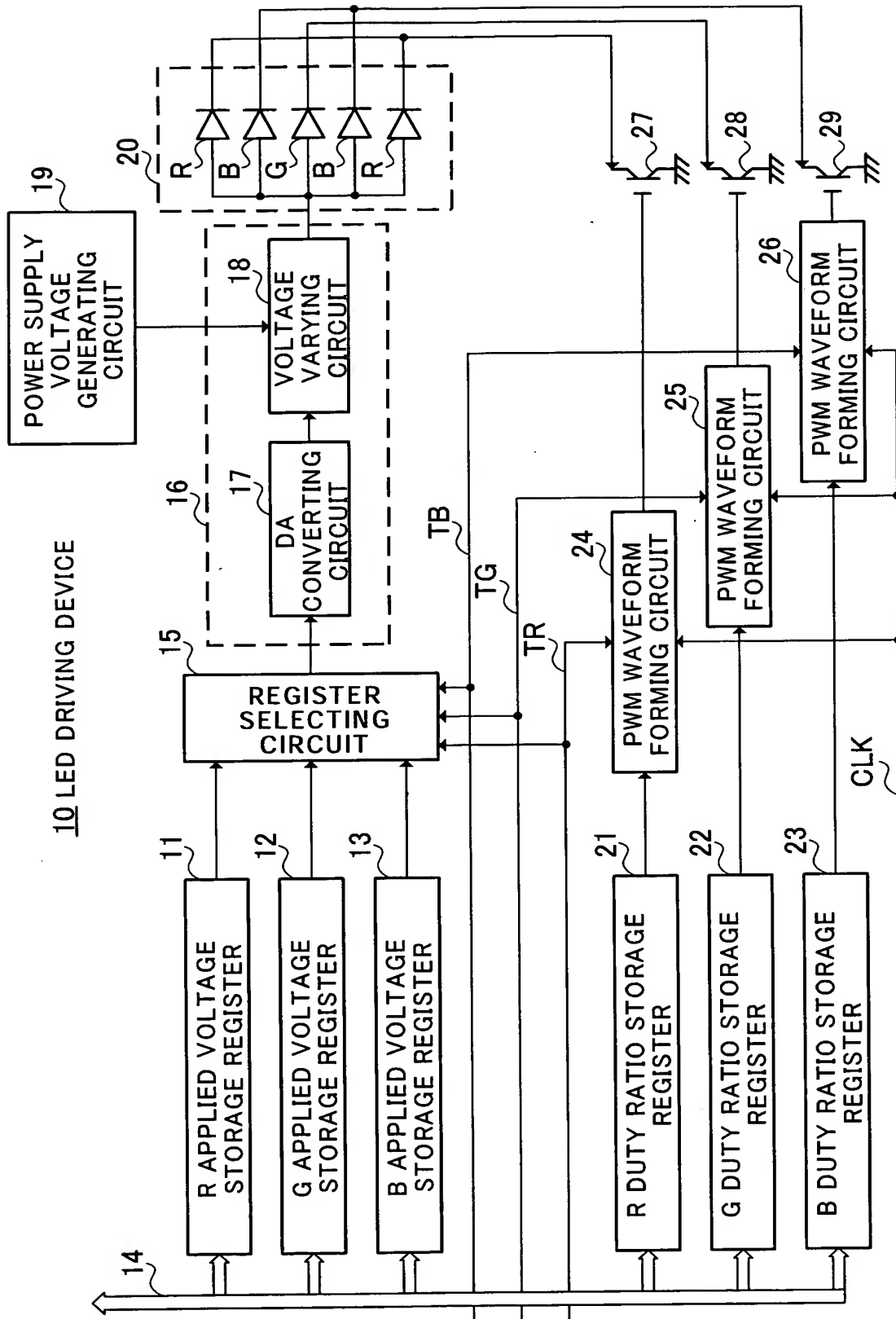


FIG. 1

	MINIMUM VALUE	STANDARD VALUE	MAXIMUM VALUE
RED LED	1.75	2.2	2.45
GREEN LED	2.9	3.3	3.9
BLUE LED	2.9	3.4	3.9

UNIT :V

FIG.2

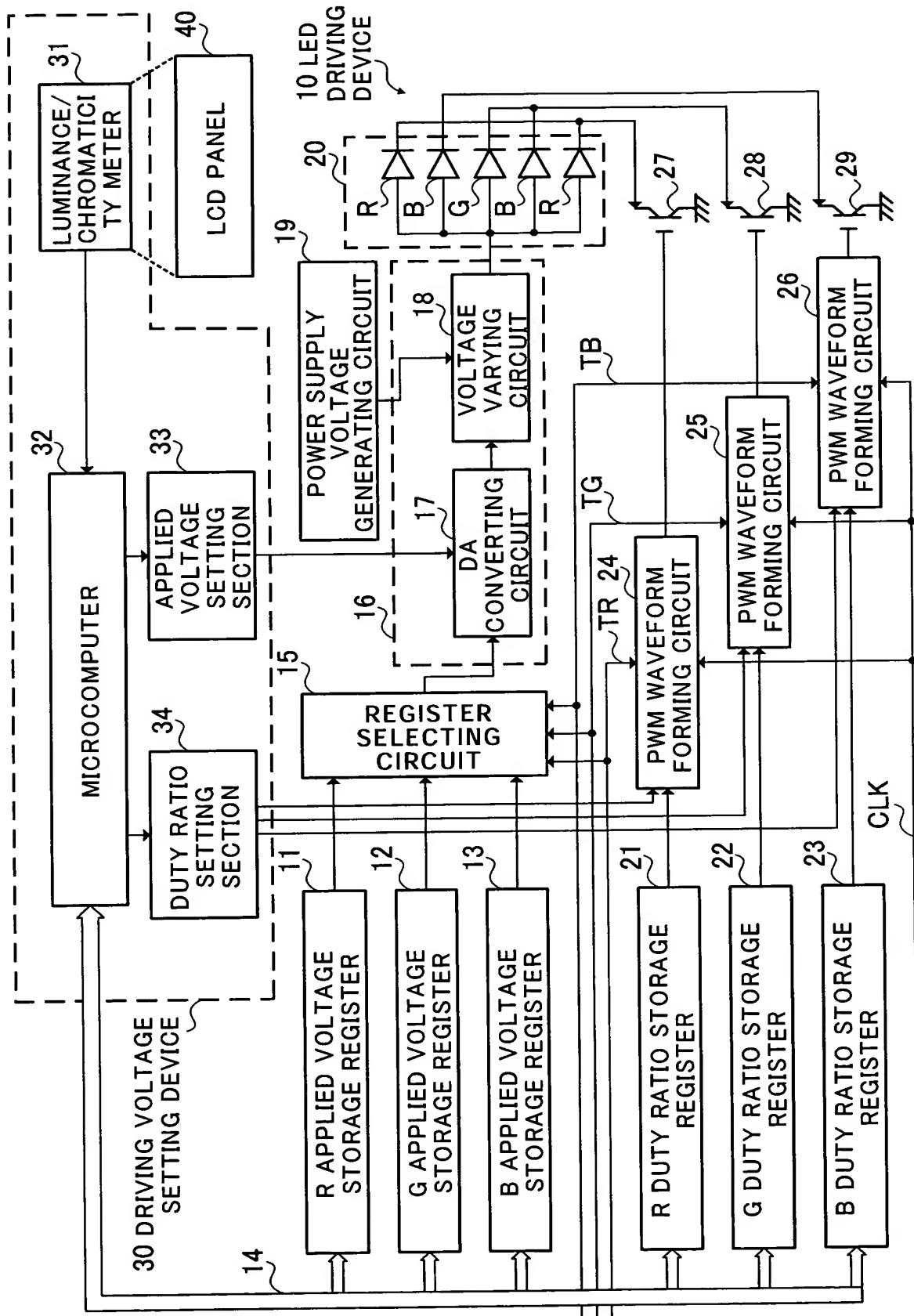


FIG.3

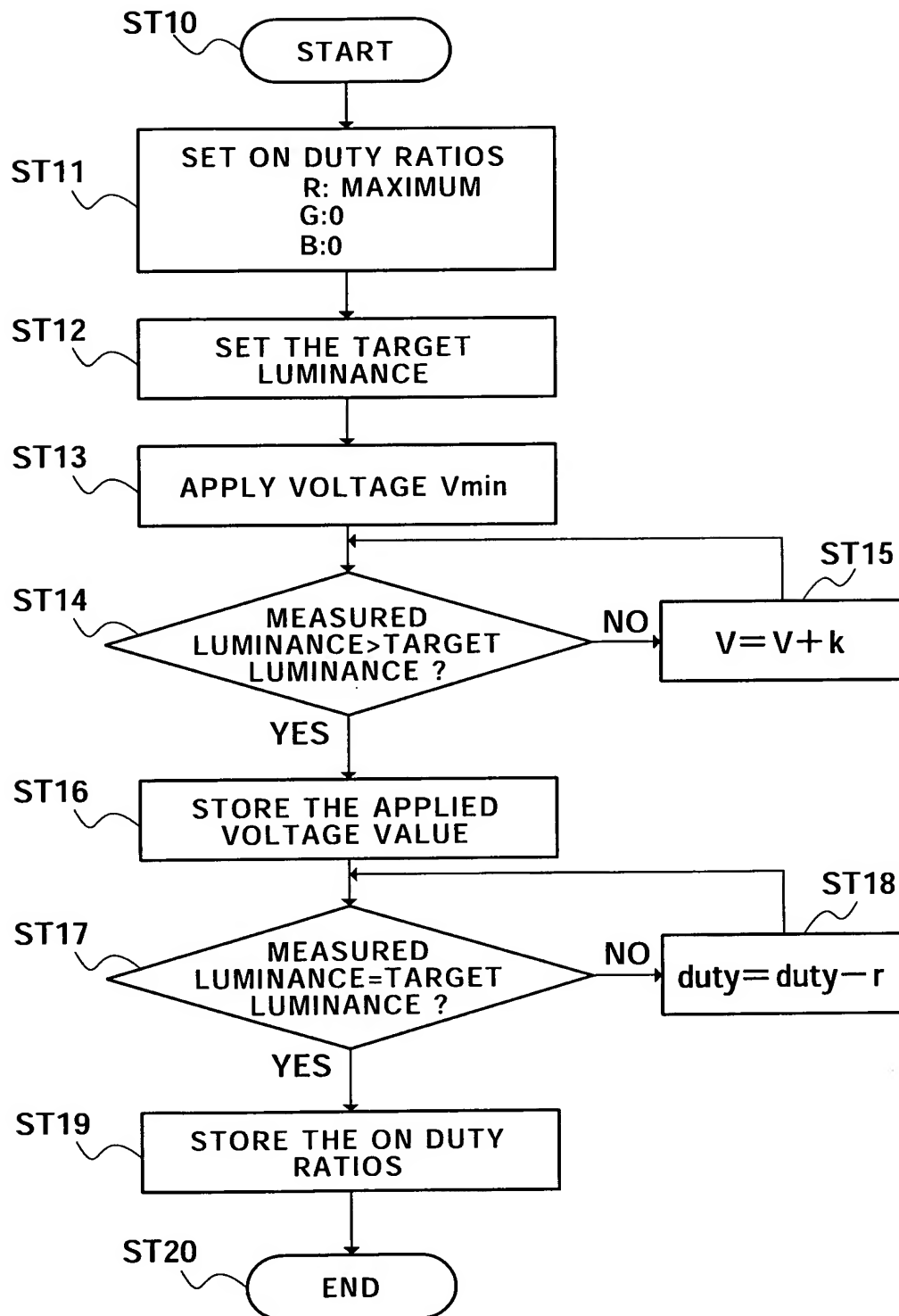


FIG.4

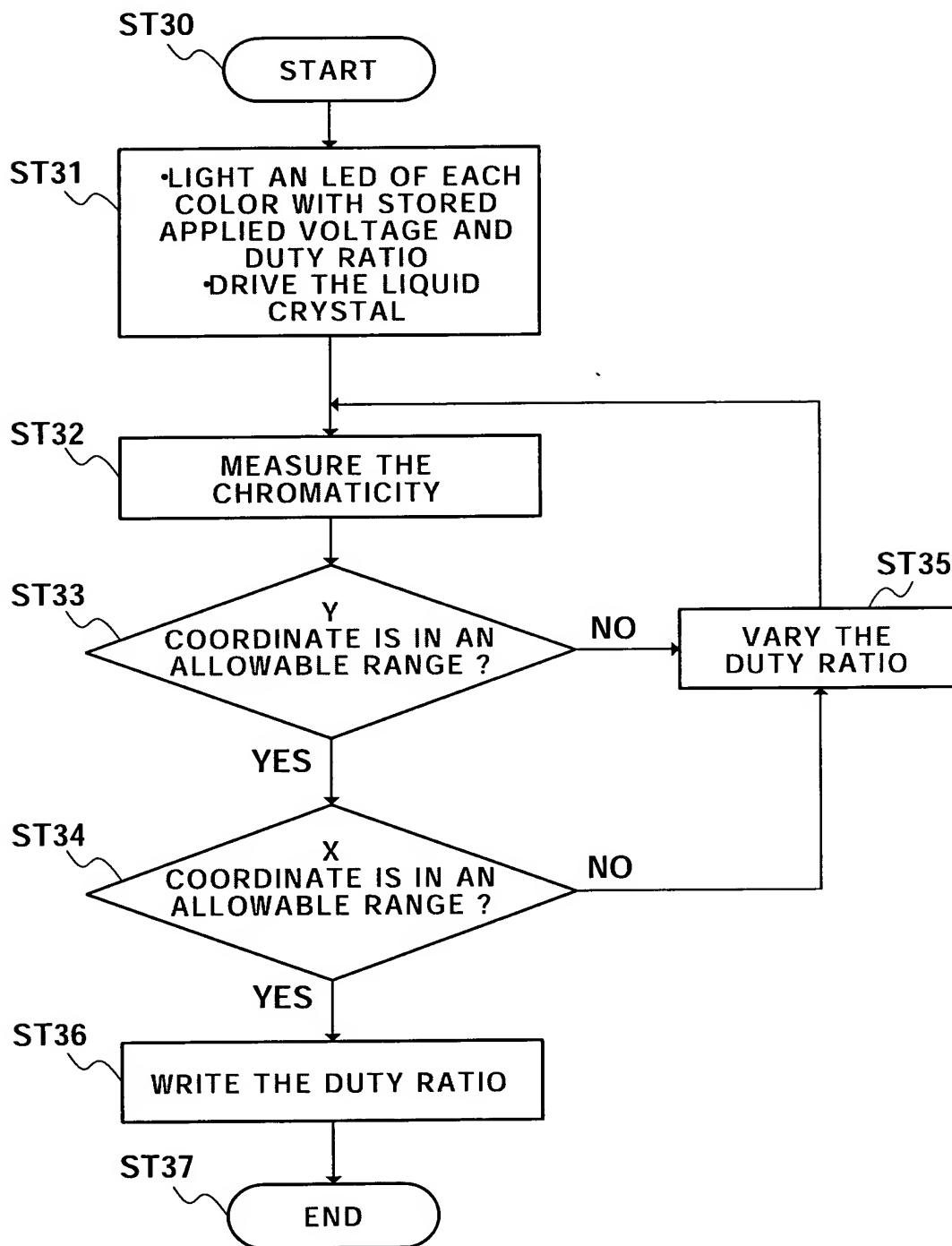


FIG.5

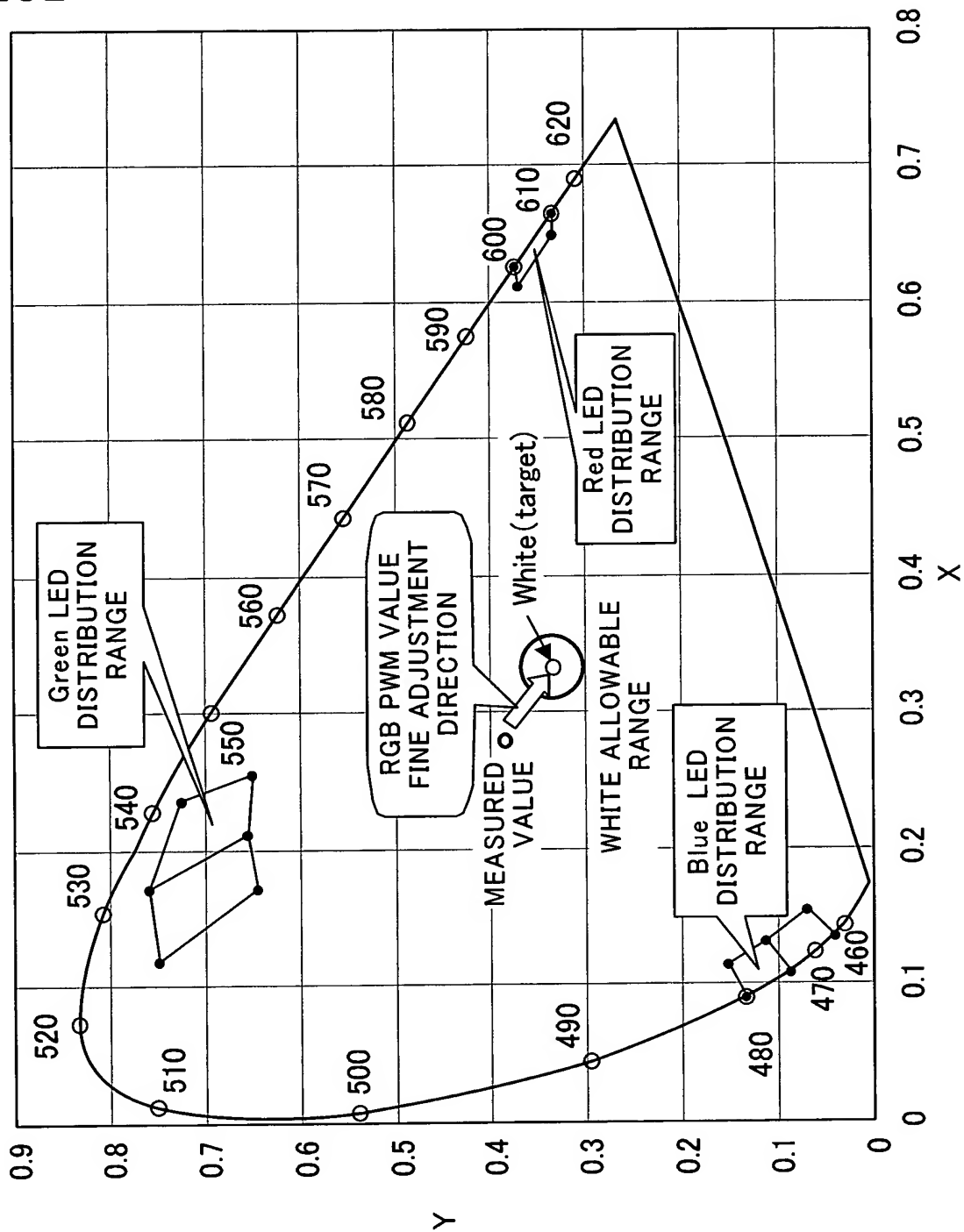
ELEMENT
CHROMATICITY
RANGE

FIG.6

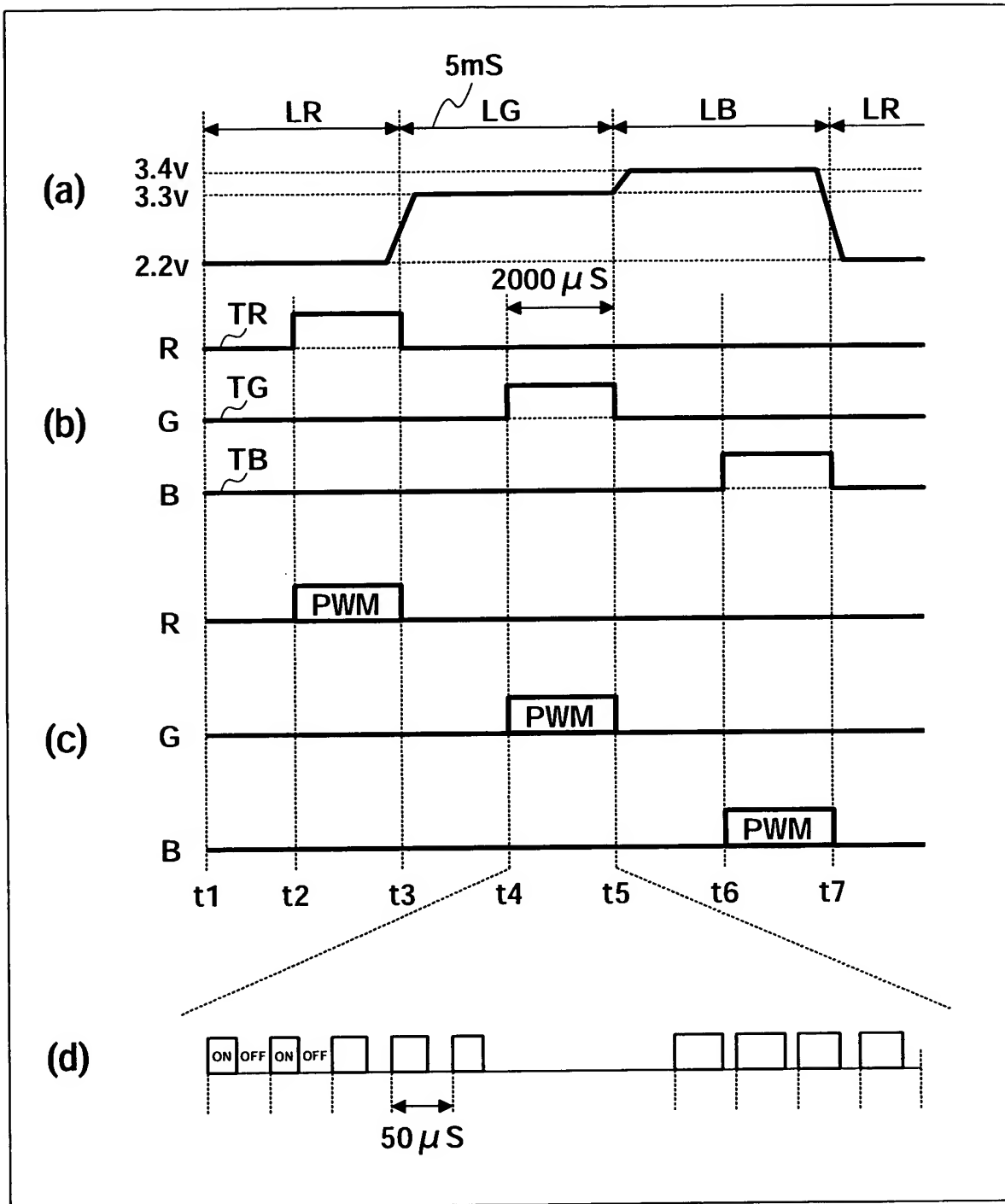


FIG.7